BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Improvement and maintainance of footpath and drains in ward no 07, Thanisandra Byatarayanapura Sub Division**

EMB
Pre- Measurements

Job Code : **007-23-000006**

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BRUHATH BENGALURU MAHANAGARA PALIKE
BYATARAYANAPURA SUB DIVISION
PRE MEASUREMENT

Name of Work : Improvement and maintainance of footpath and drains in ward no 07, Thanisandra Byatarayanapura Sub Division

Est Cost Rs:- 30.00 Lakhs

Name of agency : Sri. Vishwanath P #28/2,2nd Cross,Giddappa

Job Number :- 007-23-000006 Budget Head :- P-3726

AS No:- AS/CE(YNK)144/2022-23, D:16-09-2022

TS No:- TS/CE(YNK)/144/2022-23, D:04-11-2022

Workorder No: EE/BTP/BBMP/E-PMT/18/2022-23, Date:04-11-2022

EMB - Pre Measurement Recorded On :

Sl No	Description of work	No	L	B	D	Qty	Unit	Rate
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead I By Manual Means B **Cement Concrete Grade M-15 & M-20 (PWD SR 2021-22 Vol III Pg no 8 Item No 2.7(i))**							
a	**Existing Culverts**							
	1st Cross Hegdenagar Eastern side	1	7.40	1.50	0.25	2.78		
	2nd Cross Hegdenagar	1	8.00	1.50	0.25	3.00		
	3rd Cross Hegdenagar	1	7.40	1.50	0.25	2.78		
	4th Cross Hegdenagar	1	7.90	1.50	0.25	2.96		
	5th Cross Hegdenagar	1	7.40	1.50	0.25	2.78		
	6th Cross Hegdenagar	1	8.00	1.50	0.25	3.00		
	7th Cross Hegdenagar	1	7.40	1.50	0.25	2.78		
	8th Cross Hegdenagar	1	7.40	1.50	0.25	2.78		
	9th Cross Hegdenagar	1	7.80	1.60	0.25	3.12		
	2nd Cross Hegdenagar (Shabari nagar main road)	1	6.10	1.70	0.25	2.59		
	3rd Cross Hegdenagar(Shabari nagar main road)	1	7.40	1.60	0.25	2.96		
					Total	31.51	cum	
				Schedule B Qty		31.50		

Assistant Engineer
Ward No.07

Assistant Executive Engineer
Byatarayanpura Sub Division

2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead (iii) **Dismantling Stone Masonry B Rubble stone** masonry in cement mortar. (PWD SR 2021-22 Vol III Pg no 8 Item No 2.10(iv))							
a	**Existing Culverts**							
	1st Cross Hegdenagar	2	7.40	0.60	0.50	4.44		
	2nd Cross Hegdenagar	2	8.00	0.60	0.50	4.80		

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	3rd Cross Hegdenagar	2	7.40	0.60	0.50	4.44		
	4th Cross Hegdenagar	2	7.90	0.60	0.50	4.74		
	5th Cross Hegdenagar	2	7.40	0.60	0.50	4.44		
	6th Cross Hegdenagar	2	8.00	0.60	0.50	4.80		
	7th Cross Hegdenagar	2	7.40	0.60	0.50	4.44		
	8th Cross Hegdenagar	2	7.40	0.60	0.50	4.44		
	9th Cross Hegdenagar	2	7.80	0.60	0.50	4.68		
	2nd Cross Hegdenagar (Shabari nagar main road)	2	6.10	0.65	0.50	3.965		
	3rd Cross Hegdenagar(Shabari nagar main road)	2	7.40	0.65	0.55	5.291	41.23	
					Total	50.48	cum	
				Schedule B Qty		50.40		

Assistant Engineer
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Byatarayanpura Sub Division

3	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) Data rate							
a	Drain Slabs L/s	1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	30.00	0.90		27.00		
		1	18.50	0.90		16.65		
			588.50					
	R/s	1	11.70	0.90		10.53		
		1	32.00	0.90		28.80		
		1	32.00	0.90		28.80		
					Toal	597.78	sqm	
				Schedule B Qty		577.80		

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Byatarayanpura Sub Division

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4	**Earth work excavation by manual means for drains,**canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m **(PWD SR 2021-22 Vol -I Pg 5 item No. 1.4.1)**						
a	**For Desilting of Drains**						
	Indira Canteen Road L/s	1	30.00	0.60	0.40	7.20	
		1	30.00	0.60	0.45	8.10	
		1	30.00	0.60	0.35	6.30	
		1	30.00	0.60	0.40	7.20	
		1	30.00	0.60	0.35	6.30	
		1	30.00	0.60	0.50	9.00	
		1	30.00	0.60	0.45	8.10	
		1	30.00	0.60	0.35	6.30	
		1	30.00	0.60	0.50	9.00	
		1	30.00	0.60	0.35	6.30	
		1	30.00	0.60	0.40	7.20	
		1	30.00	0.60	0.35	6.30	
		1	30.00	0.60	0.45	8.10	
		1	30.00	0.60	0.45	8.10	
		1	30.00	0.60	0.40	7.20	
		1	30.00	0.60	0.45	8.10	
		1	30.00	0.60	0.50	9.00	
		1	30.00	0.60	0.45	8.10	
		1	30.00	0.60	0.40	7.20	
		1	18.50	0.60	0.40	4.44	
	Indira Canteen Road R/s	1	11.70	0.60	0.50	3.51	
		1	32.00	0.60	0.55	10.56	
		1	32.00	0.60	0.50	9.60	
		1	31.90	0.60	0.45	8.61	
		1	32.00	0.60	0.45	8.64	
		1	31.50	0.60	0.40	7.56	
		1	31.50	0.60	0.45	8.51	
		1	32.80	0.60	0.50	9.84	
		1	32.00	0.60	0.50	9.60	
		1	32.00	0.60	0.40	7.68	
		1	21.00	0.60	0.40	5.04	
		1	21.80	0.60	0.45	5.89	
		1	22.90	0.60	0.45	6.18	
		1	23.20	0.60	0.45	6.26	
		1	22.20	0.60	0.45	5.99	
		1	23.30	0.60	0.50	6.99	
		1	22.40	0.60	0.45	6.05	
		1	20.10	0.60	0.50	6.03	
		1	22.00	0.60	0.45	5.94	
		1	19.30	0.60	0.45	5.21	
	Cross Road L/s	1	19.00	0.60	0.45	5.13	
	Cross Road R/s	1	19.00	0.60	0.50	5.70	
		1	30.00	0.60	0.50	9.00	

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		1	30.00	0.60	0.45	8.10		
b	**For Desilting of Culverts**							
	Indira Canteen Road R/s- 1st Cross Hegdenagar							
	2nd Cross Hegdenagar	1	8.00	0.60	0.50	2.40		
	3rd Cross Hegdenagar	1	7.40	0.60	0.55	2.44		
	4th Cross Hegdenagar	1	7.90	0.60	0.60	2.84		
	5th Cross Hegdenagar	1	7.40	0.60	0.55	2.44		
	6th Cross Hegdenagar	1	8.00	0.60	0.45	2.16		
	7th Cross Hegdenagar	1	7.40	0.60	0.50	2.22		
	8th Cross Hegdenagar	1	7.40	0.60	0.50	2.22		
	9th Cross Hegdenagar	1	7.80	0.60	0.45	2.11		
	2nd Cross Hegdenagar	1	6.10	0.60	0.45	1.65		
	3rd Cross Hegdenagar	1	7.40	0.60	0.40	1.78	30.36	
					Toal	341.42	cum	170.00
				Schedule B Qty		340.44		

Assistant Engineer
Ward No.07

Assistant Executive Engineer
Byatarayanpura Sub Division

5	**Providing Size Stone masonry** with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) **(PWD SR 2021-22 Vol -II Pg 9 Item No. 5.4)**							
a	**For raising culvert walls**							
	1st Cross Hegdenagar	2	7.40	0.60	0.50	4.44		
	2nd Cross Hegdenagar	2	8.00	0.60	0.50	4.80		
	3rd Cross Hegdenagar	2	7.40	0.60	0.50	4.44		
	4th Cross Hegdenagar	2	7.90	0.60	0.50	4.74		
	5th Cross Hegdenagar	2	7.40	0.60	0.50	4.44		
	6th Cross Hegdenagar	2	8.00	0.60	0.50	4.80		
	7th Cross Hegdenagar	2	7.40	0.60	0.50	4.44		
	8th Cross Hegdenagar	2	7.40	0.60	0.50	4.44		
	9th Cross Hegdenagar	2	7.80	0.60	0.50	4.68		
	2th Cross Hegdenagar	2	6.10	0.65	0.55	4.36		
	3th Cross Hegdenagar	2	7.40	0.65	0.55	5.29		
					Total	50.87		
				Schedule B Qty		50.40	cum	4801.27

Assistant Engineer
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Assistant Executive Engineer
Byatarayanpura Sub Division

6	**Providing and laying in position plain cement concrete** for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. **Mix 1:3:6 (M10) Using 20 mm nominal size** graded crushed coarse aggregates. Specification **(PWD SR 2021-22 Vol -I Pg 15 item no 2.1.4)**							
a	**For Drain**							
	Drain bed for levelling Indira canteen Road L/s	1	30.00	0.60	0.10	1.80		
						1.80		

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		1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.12	2.16	
		1	30.00	0.60	0.12	2.16	
		1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.12	2.16	
		1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.12	2.16	
		1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.10	1.80	
		1	18.50	0.60	0.10	1.11	
	Indira Canteen Road R/s	1	11.70	0.60	0.10	0.70	
		1	32.00	0.60	0.10	1.92	
		1	32.00	0.60	0.10	1.92	
		1	31.90	0.60	0.10	1.91	
		1	32.00	0.60	0.12	2.30	
		1	31.50	0.60	0.12	2.27	
		1	31.50	0.60	0.10	1.89	
		1	32.80	0.60	0.10	1.97	
		1	32.00	0.60	0.10	1.92	
		1	32.00	0.60	0.10	1.92	
		1	21.00	0.60	0.10	1.26	
		1	21.80	0.60	0.10	1.31	
		1	19.00	0.60	0.10	1.14	
	Cross Road L/s	1	19.00	0.60	0.10	1.14	
	Cross Road R/s	1	30.00	0.60	0.10	1.80	
		1	30.00	0.60	0.10	1.80	
b	**For Culvert**						
	Culvert bed for levelling Indira canteen Road L/s						
	1st Cross Hegdenagar	1	7.40	1.80	0.12	1.60	
	2nd Cross Hegdenagar	1	8.00	1.80	0.10	1.44	
	3rd Cross Hegdenagar	1	7.40	1.80	0.12	1.60	
	4th Cross Hegdenagar	1	7.90	1.80	0.10	1.42	
	5th Cross Hegdenagar	1	7.40	1.80	0.12	1.60	
	6th Cross Hegdenagar	1	8.00	1.80	0.10	1.44	
	7th Cross Hegdenagar	1	7.40	1.80	0.12	1.60	
	8th Cross Hegdenagar	1	7.40	1.80	0.12	1.60	
	9th Cross Hegdenagar	1	7.80	1.80	0.10	1.40	
	2th Cross Hegdenagar	1	6.10	1.80	0.12	1.32	
	3th Cross Hegdenagar	1	7.40	1.80	0.12	1.60	
c	**Culvert Ramps**	2	7.40	0.60	0.10	0.89	
		2	8.00	0.60	0.10	0.96	
		2	7.40	0.60	0.12	1.07	
		2	7.90	0.60	0.10	0.95	
		2	7.40	0.60	0.12	1.07	

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		2	8.00	0.60	0.10	0.96		
		2	7.40	0.60	0.12	1.07		
		2	7.40	0.60	0.10	0.89		
		2	7.80	0.60	0.12	1.12		
		2	6.10	0.60	0.10	0.73		
		2	7.40	0.60	0.12	1.07		
					Total	91.30	5.83	
				Schedule B Qty		91.29	cum	

Assistant Engineer
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Assistant Executive Engineer
Byatarayanpura Sub Division
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